

Index to Cartography and Geographic Information Systems, Volume 17, 1990

This index includes all principal articles and other items published in Volume 17 (1990) of *Cartography and Geographic Information Systems*. Principal articles and software reviews are indexed by title and author; other items are indexed by title only. Articles are referenced by the first author's name only. For the convenience of persons referring to unbound numbers of this journal, the issue number has been included after the volume number, followed by page numbers. The following summarizes page contents:

Volume 17: January 1990, No. 1, pages 1-136
April 1990, No. 2, pages 137-204
July 1990, No. 3, pages 205-264
October 1990, No. 4, pages 265-336

ADDENDA

17:1, 130 (re: Carstensen, 16:3, 181-189).

ARTICLES

A Minimum-Error Equal-Area Pseudocylindrical Map Projection, R.E. DEAKIN, 17:2, 161-167.
A New Digital Slope-Aspect Display Process, HAROLD MOELLERING and A. JON KIMERLING, 17:2, 151-159.
An Empirical Analysis of the Design Principles for Quantitative and Qualitative Area Symbols, JAMES R. ANTES AND KANG-TSUNG CHANG, 17:4, 271-277.
Angularity and Capture of the Cartographic Line During Digital Data Entry, LAURENCE W. CARSTENSEN JR., 17:3, 209-224.
ANTES, JAMES R., and KANG-TSUNG CHANG, An Empirical Analysis of the Design Principles for Quantitative and Qualitative Area Symbols, 17:4, 271-277.
BEARD, CONNIE, and APRIL MARTINEZ ROBBINS, Scale Determination and Inset Selection within a Totally Automated Map Production System, 17:1, 57-68.
BISHTON, AMY, Mapping From a Cartographic Extract, 17:1, 49-56.
BROOME, FREDERICK R., and LESLIE GODWIN, The Census Bureau's Publication Map Production System, 17:1, 79-88.
BROOME, FREDERICK R., and DAVID B. MEIXLER, The TIGER Data-Base Structure, 17:1, 39-47.
CARSTENSEN, LAURENCE W. JR., Angularity and Capture of the Cartographic Line During Digital Data Entry, 17:3, 209-224.
CHANG, KANG-TSUNG (see ANTES).
Continuous-Tone Mapping of Smooth Surfaces, MARK P. KUMLER and RICHARD E. GROOP, 17:4, 279-289.
COULSON, MICHAEL R.C. (see ELLEHOJ).
DEAKIN, R.E., A Minimum-Error Equal-Area Pseudocylindrical Map Projection, 17:2, 161-167.
EBINGER, LEE R., and ANN M. GOULETTE, Non-

interactive Automated Names Placement for the 1990 Decennial Census, 17:1, 69-78.
ELLEHOJ, ERIK A., and MICHAEL R.C. COULSON, Legend Design for Soil Maps: An Experiment, 17:3, 225-235.
Fully Automated Cartography: A Major Transition at the Census Bureau, TIMOTHY F. TRAINOR, 17:1, 27-38.
GODWIN, LESLIE (see BROOME).
GOULETTE, ANN M. (see EBINGER).
GROOP, RICHARD E. (see KUMLER).
Introduction (to special issue on Census Bureau's TIGER System), ROBERT W. MARX, 17:1, 17-19.
KIMERLING, A. JON (see MOELLERING).
KUMLER, MARK P., and RICHARD E. GROOP, Continuous-Tone Mapping of Smooth Surfaces, 17:4, 279-289.
LANGRAN, GAIL, Tracing Temporal Information in an Automated Nautical Charting System, 17:4, 291-299.
Legend Design for Soil Maps: An Experiment, ERIK A. ELLEHOJ and MICHAEL R.C. COULSON, 17:3, 225-235.
Mapping From a Cartographic Extract, AMY BISH-TON, 17:1, 49-56.
MARX, ROBERT W., Introduction (to special issue on Census Bureau's TIGER System), 17:1, 17-19.
MARX, ROBERT W., The TIGER System: Yesterday, Today, and Tomorrow, 17:1, 89-97.
MEIXLER, DAVID B. (see BROOME).
MOELLERING, HAROLD, and A. JON KIMERLING, A New Digital Slope-Aspect Display Process, 17:2, 151-159.
MULLER, J.C., The Removal of Spatial Conflicts in Line Generalization, 17:2, 141-149.
Noninteractive Automated Names Placement for the 1990 Decennial Census, LEE R. EBINGER and ANN M. GOULETTE, 17:1, 69-78.
ROBBINS, APRIL MARTINEZ (see BEARD).
Scale Determination and Inset Selection within a Totally Automated Map Production System, CONNIE

BEARD and APRIL MARTINEZ ROBBINS, 17:1, 57-68.

The Census Bureau's Publication Map Production System, FREDERICK R. BROOME and LESLIE GODWIN, 17:1, 79-88.

The Removal of Spatial Conflicts in Line Generalization, J.C. MULLER, 17:2, 141-149.

The TIGER Data-Base Structure, FREDERICK R. BROOME and DAVID B. MEIXLER, 17:1, 39-47.

The TIGER System: Yesterday, Today, and Tomorrow, ROBERT W. MARX, 17:1, 89-97.

TOMASI, SILLA G., Why the Nation Needs a TIGER System, 17:1, 21-26.

Tracing Temporal Information in an Automated Nautical Charting System, GAIL LANGRAN, 17:4, 291-199.

TRAINOR, TIMOTHY F., Fully Automated Cartography: A Major Transition at the Census Bureau, 17:1, 27-38.

Why the Nation Needs a TIGER System, SILLA G. TOMASI, 17:1, 21-26.

BOOK NOTES

17:1, 121.

17:3, 258.

17:4, 319.

BOOK AND ATLAS REVIEWS

Analytical and Computer Cartography, Keith C. Clarke (TERRY A. SLOCUM), 17:4, 314-316.

Applied Cartography: Introduction to Remote Sensing, Thomas D. Rabenhorst and Paul D. McDermott (JOSEPH PORACSKY), 17:1, 118-119.

Applied Cartography: Source Materials for Mapmaking, Thomas D. Rabenhorst and Paul D. McDermott (JOSEPH PORACSKY), 17:1, 118-119.

Atlas of the Middle East, Moshe Brawer (JONATHAN J. LU), 17:1, 119-120.

Cartography and Site Analysis with Microcomputers, N. Brito Mutunayagam and Ali Bahrami (E. LYNN USERY), 17:4, 317-318.

Cartography: Thematic Map Design, Borden D. Dent (JOIS C. CHILD), 17:4, 311.

Digital Image Processing in Remote Sensing, Jan-Peter Muller, editor (DOUGLAS J. WHEELER), 17:3, 256-257.

Explorations in the History of Canadian Mapping: A Collection of Essays, Barbara Farrell and Aileen Desbarats, editors (ANNE GODLEWSKA), 17:4, 313-314.

Geographic Information Systems: A Management Approach, Stan Aronoff (VALERIAN T. NORONHA), 17:2, 178-179.

Historical Atlas of Arkansas, Gerald T. Hanson and Carl H. Moneyhon (MILTON D. RAFFERTY), 17:2, 174-175.

Historical Atlas of the American West, Warren A. Beck

and Ynez D. Haase (MILTON D. RAFFERTY), 17:2, 175-176.

Historical Atlas of the United States, Wilbur E. Garrett, editor (JAMES R. SHORTRIDGE), 17:2, 176-177.

Information Graphics: A Survey of Typographic, Diagrammatic and Cartographic Communication, Peter Wildbur (DAVID DIBIASE), 17:4, 312-313.

Metropolitan Atlas Series: Vancouver, Statistics Canada (JUDITH A. TYNER), 17:4, 316.

Numerical Generalization in Cartography, Robert B. McMaster, editor (LAURENCE W. CARSTENSEN JR.), 17:2, 177-178.

Political Atlas of Illinois, P. Kleppner, R.E. Dahlberg, R.A. Tobias, K.M. Himmelberger, and R.P. Vaupel (J. CLARK ARCHER), 17:2, 172-173.

Three-Dimensional Applications in Geographic Information Systems, Jonathan Raper, editor (THEODORE R. STEINKE), 17:2, 177-178.

The Atlas of Pennsylvania, David J. Cuff, William J. Young, Edward K. Muller, Wilbur Zelinsky, and Ronald F. Abler, editors (BORDEN D. DENT), 17:3, 255-256.

The World in Perspective: A Directory of World Map Projections, Frank Canters and Hugo Decler (C. PETER KELLER), 17:4, 314.

CARTOGRAPHIC NOTES

17:1, 130.

DISTINCTIVE RECENT MAPS

17:2, 185-202. 17:4, 324-335.

ESSAY

Cartography and Geographic Information Systems, PHILLIP C. MUEHRCKE, 17:1, 7-15.

INDEX

Index to *The American Cartographer*, 1989, 17:1, 131-133.

JOURNAL NOTES

17:2, 180.

RECENT LITERATURE

17:1, 122-129.

17:2, 181-184.

17:3, 259-262.

17:4, 320-323.

REPORT

U.S. Participation in the 14th Technical Conference of the International Cartographic Association, JAMES R. CARTER, 17:2, 169-171.

SOFTWARE REVIEWS

- ARCHER, J. CLARK, SYSTAT/SYGRAPH, 17:4, 306-310.
DEMERS, MICHAEL N., DRAFIX CAD ULTRA, 17:1, 114-116.
DUFFY, STAN, Microcomputer-Based Automated Projection System (M.A.P.S.), 17:1, 116-117.
HODLER, THOMAS W., SURFER, 17:3, 251-254.
LINDENBERG, RICHARD E., DESIGNER, 17:3, 249-251.

SPECIAL REPORTS

- Spatial Data Needs: The Future of the National Mapping Program, JOHN D. BOSSLER, THOMAS C.

- FINNIE, BARBARA B. PETCHENIK, and THOMAS M. USSELMAN, 17:3, 237-242.

The Modernization Program of the U.S. Geological Survey's National Mapping Division, K. ERIC ANDERSON and GEORGE M. CALLAHAN, 17:3, 243-248.

TECHNICAL NOTE

- The Robinson Projection—A Computation Algorithm, JOHN P. SNYDER, 17:4, 301-305 (See correction note re: Figure 1, 18:1, 87).